The application was originally made under the Patent Cooperation Treaty with the German Patent Office acting as the receiving office on (86) 23 Oct 1980, being given an application number PCT/DE80/00159. The application was searched by the European Patent Office acting as the International Search Authority (ISA), and published by the International Bureau on (87) 28 May 1981 under serial number WO 81/01375 in the German language. The text of the application is contained in the publication made by the International Bureau as above identified, the accompanying text being an English translation thereof.

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(56) Documents cited by ISA
DE A 2206400
DE A 2033067
DE A 2366046
GB A 1564128
DE A 2305696
DE A 2818184
FR A 2307034
DE A 2000632
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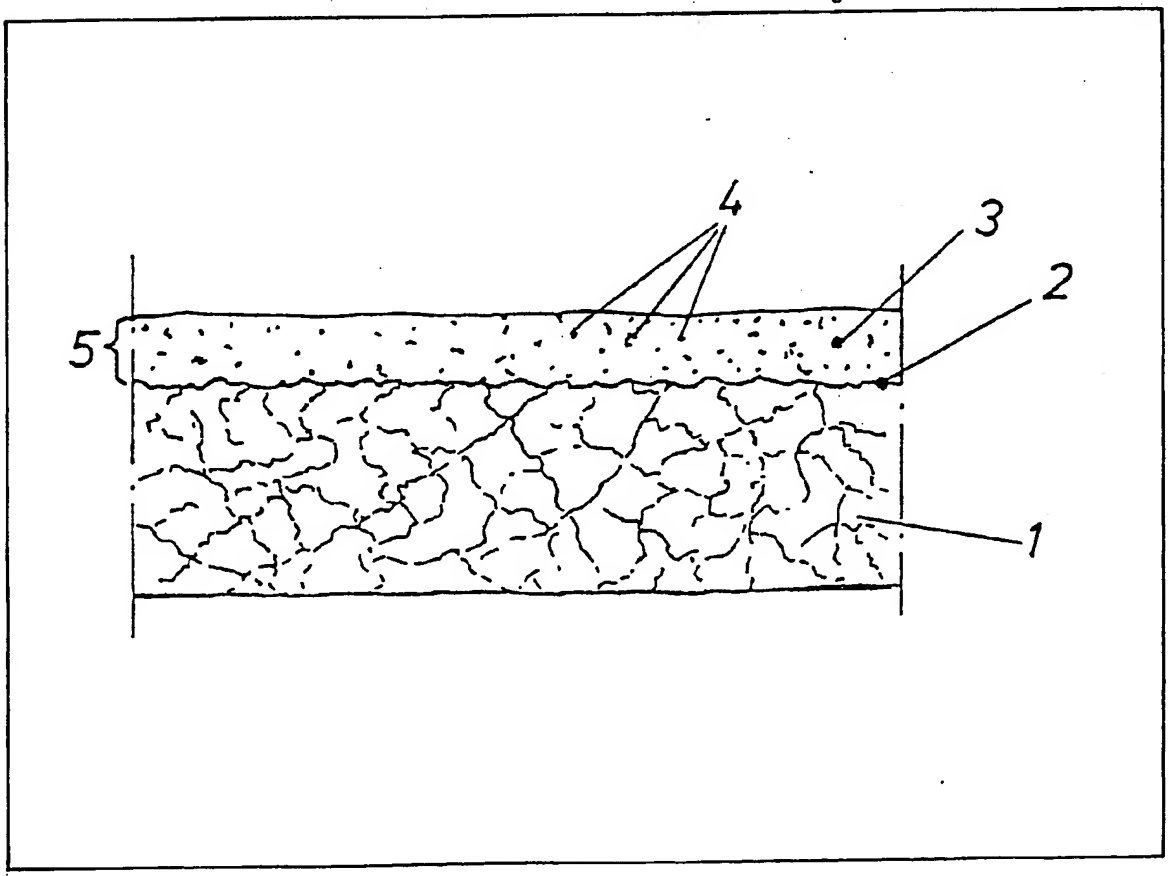
(54) Composite material with two or a plurality of layers

(57) Composite material with two or a plurality of layers with a coating layer (5) which is applied directly on the rough surface (2) of a substrate and which comprises a lake base of polyimid and at least one finely spread additive in said base. Upon forming the coating layer (5) as a friction or sliding layer, such layer may contain about 99 to 60% by volume, preferably 90 to 80% by volume of thermo-setting polyimid lake and about 1 to 40% by volume, preferably 10 to 20% by volume of self-lubrication additives, particularly low molecular weight PTFE, with a grain size comprised between 5 and 7 μm. For manufacturing said composite material, the powder additive is intimately mixed with the polyimid lake and homogenized until it becomes slightly viscous or pasty, deposited on the metal substrate and fixed thereto by sintering.



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